

GRADE 10 MATHEMATICS MARCH TEST

QUESTION 1

1.1 Copy and complete the following table on your answer sheet:
Only tick in the applicable columns.

(4)

	$\sqrt{2}$	$\sqrt{3}$	$\sqrt{5}$	$\sqrt{7}$	$\sqrt{10}$	$\sqrt{12}$	$\sqrt{15}$
$\sqrt{3} + \sqrt{2}$							
$\sqrt{5}$							
$\sqrt{10}$							
$\sqrt{7}$							

1.2 Determine between which integers the following irrational number lie:

(2)

1.3 Use the ladder method to give the prime factors of 5104.

(5)

QUESTION 2

Factorise the following expressions:

2.1 $x^2 - 49$

(1)

2.2 $2x^2 - 12x + 10$

(2)

2.3 $4x^2 - 1$

(2)

2.4 $3x^2 + 9x - 12$

(3)

QUESTION 3

Simplify the following expressions:

3.1 $(x - 5)(3x + 2)$

(2)

3.2 $\frac{1}{x} + \frac{1}{y}$

(2)

3.3 $\frac{5x^2 + 25x}{5x}$

(2)

QUESTION 4

Simplify the following using the exponential laws.

4.1 $\frac{1}{x^3}$

(1)

4.2 x^0

(2)

Solve for x :

4.3 $2^x - 5 = 11$

(2)

QUESTION 5

Solve for x :

5.1 $(x - 3)(x + 5) = 0$

(2)

5.2 $3x + 2 = 2x - 1$

(2)

5.3 $\frac{1}{x} = \frac{1}{2}$

(2)

5.4 $\frac{1+x}{x} + 5 > 8$

(2)

5.5 Solve x and y simultaneously:

$x + y = 10$

$2x - y = 2$

5.6 Jane is 3 years older than her sister. Together they are 19 years old.

(4)

5.7 $\frac{1}{x} + \frac{1}{y} = 1$

(2)

QUESTION 6

6.1 Use the following triangle to determine the trigonometric ratios:



6.1.1

(2)

6.1.2

(2)

6.1.3

(2)

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Marco Cascella

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poet and former political prisoner In 1969 the police arrested Ericka Huggins along with Bobby Seale and fellow Black Panther Party members who were accused of murdering Alex Rackley This marked the beginning of her ordeal as she became the subject of political persecution and a well planned FBI COINTELPRO plot Drawing on never before seen archival sources including prison records unpublished letters photographs FBI records and oral histories Phillips foregrounds the paramount role of self care and community care in Huggins s political journey shedding light on Ericka s use of spiritual wellness practices she developed during her incarceration In prison Huggins was able to survive the repression and terror she faced while navigating motherhood through her unwavering commitment to spiritual practices In showcasing this history Phillips reveals the significance of spiritual wellness in the Black Panther Party and Black Power movement Transcending the traditional male centric study of the Black Panther Party Black Panther Woman offers an innovative analysis of Black political life at the intersections of gender motherhood and mass incarceration This book serves as an invaluable toolkit for contemporary activists underscoring the power of radical acts of care as well as vital strategies to thrive in the world

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